

## CD42b/GP1BA Protein, Human, Recombinant (aa 17-531, His)

### General Information

Synonyms:	VWDP; GPIb $\alpha$ ; BSS; CD42b- $\alpha$ ; CD42b- $\alpha$ ; BDPLT3; GPIbA; CD42B; BDPLT1; DBPLT3; GP1B; glycoprotein Ib (platelet), $\alpha$ polypeptide; GPIb $\alpha$ ; glycoprotein Ib (platelet), alpha polypeptide
Protein Construction:	His17-Leu531
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P07359
Molecular Weight:	57.6 kDa (Predicted); 110-115 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human CD42b, His Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Anti-CD42b Antibody, hFc Tag with the EC50 of 4.0 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Absence of the CD42 complex leads to the Bernard-Soulier syndrome (BSS), which is a bleeding disorder characterized by thrombocytopenia and giant platelets. So far, mutations have been found in the genes encoding CD42a, CD42b and CD42c in patients with BSS\*\*.

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